

**CPC****COOPERATIVE PATENT CLASSIFICATION****G21G****CONVERSION OF CHEMICAL ELEMENTS; RADIOACTIVE SOURCES**

(applications of radiation in general [G21H 5/00](#); handling particles, e.g. neutrons, or electromagnetic radiation not otherwise provided for G21K)

**G21G 1/00**

**Arrangements for converting chemical elements by electromagnetic radiation, corpuscular radiation or particle bombardment, e.g. producing radioactive isotopes** (separation of different isotopes of the same element [B01D 59/00](#))

## G21G 1/0005

. { **Isotope delivery systems** (use of radioisotopes as tracers [G21H 5/02](#))}

## G21G 1/001

. { **Recovery of specific isotopes from irradiated targets**}

## G21G 1/02

. in nuclear reactors (by thermonuclear reactions [G21B](#); conversion of nuclear fuel [G21C](#))

## G21G 1/04

. outside nuclear reactors or particle accelerators

## G21G 1/06

.. by neutron irradiation

## G21G 1/08

... accompanied by nuclear fission

## G21G 1/10

.. by bombardment with electrically charged particles (irradiation devices [G21K 5/00](#))

## G21G 1/12

.. by electromagnetic irradiation, e.g. with gamma or X-rays (applications of radiation [G21H 5/00](#); irradiation devices [G21K 5/00](#))

**G21G 4/00**

**Radioactive sources** (producing neutrons or other subatomic particles, X- or gamma rays, in fusion reactors G21B, in nuclear reactors G21C, by cosmic radiation [G21H 7/00](#), in accelerators H05H; X-ray tubes [H01J 35/00](#); gamma masers [H01S 4/00](#))

## G21G 4/02

. Neutron sources

## G21G 4/04

. Radioactive sources other than neutron sources (**radioactive dressings** [A61N 5/12](#))

## G21G 4/06

.. characterised by constructional features

## G21G 4/08

... specially adapted for medical application (radiation therapy using radioactive sources [A61N 5/10](#))

## G21G 4/10

.. with radium emanation

**G21G 5/00**

**Alleged conversion of chemical elements by chemical reaction**

**G21G 7/00**

**Conversion of chemical elements not provided for in other groups of this subclass**

## G21G 2001/00

**Arrangements for converting chemical elements by electromagnetic radiation,**

**corpuscular radiation or particle bombardment, e.g. producing radioactive isotopes**  
(separation of different isotopes of the same element [B01D 59/00](#))

- G21G 2001/001 . { Recovery of specific isotopes from irradiated targets}
- G21G 2001/0015 .. Fluorine
- G21G 2001/0021 .. Gallium
- G21G 2001/0026 .. Arsenic
- G21G 2001/0031 .. Rubidium
- G21G 2001/0036 .. Molybdenum
- G21G 2001/0042 .. Technetium
- G21G 2001/0047 .. Rhodium
- G21G 2001/0052 .. Palladium
- G21G 2001/0057 .. Indium
- G21G 2001/0063 .. Iodine
- G21G 2001/0068 .. Cesium
- G21G 2001/0073 .. Rhenium
- G21G 2001/0078 .. Thallium
- G21G 2001/0084 .. Bismuth
- G21G 2001/0089 .. Actinium
- G21G 2001/0094 .. Other isotopes not provided for in the groups listed above